

# Breakout Group Orange

Breakout Presentation from the  
*National Micro-CHP Technology  
Pathways Workshop*

# Premises, Caveats, and Assumptions

- Market Study is Performed and Demonstrates Micro-CHP is viable and beneficial to Nation
- Non-Technical Barriers eliminated

# Technology Cost and Performance Targets

- 90% Efficiency
- \$1500/kW by 2005 (Incremental over Heat)
- \$500/kW by 2010
- Meet Applicable California Emissions Stds.
- Noise distinctly below air conditioner or heat pump

# Top Priority RD&D and Tech Transfer Needs

- Performance Standards
- Comprehensive Test, Verification, & Demonstration Process
- Multi-Fuel Capability
  - Gas
  - Liquid
  - Solid
  - Freedom Fuel (H<sub>2</sub>)

# Actions and Next Steps

- Immediately start with ASHRAE TC9.5
- Test, Verification, and Demonstration Program Outline by DOE & Industry Partnership
- Industry to continue developing NG & Oils
- DOE to characterize, begin design, and testing on bio-fuels
- DOE drop loads of cash on Freedom Fuel

# Key Themes and Messages

- Need Market Data
- Need to get organized
  - Need performance standards
  - Begin working with code officials
- Heat and Power First, Cooling later when better defined
- Demos, Demos, Demos
- Feds First as a Purchaser